

AMENDMENTS TO THE CLAIMS:

The present listing of claims replaces all prior versions, and listings of claims in the application.

Claim 1. (Currently Amended) A dispersion comprising:

polyanions;

cationic 3,4-polyalkylenedioxythiophenes; and

a solvent comprising water and optionally alcohol,

wherein said dispersion has a weight ratio of cationic 3,4-polyalkylenedioxythiophene to polyanion of from 1 : 8 to 1 : 25, ~~said dispersion being prepared by high pressure homogenization under a pressure of 100 to 1000 bar, and 90% by weight of the particles of the dispersion being less than 40 nm,~~

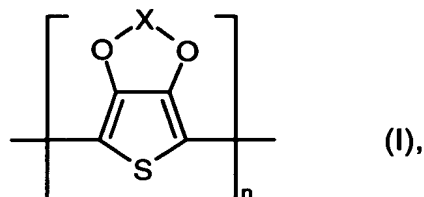
~~further wherein a coating produced from said dispersion has a resistivity of at least 5000 Ωcm ,~~

~~said coating being prepared by applying said dispersion to a glass substrate at a thickness of 200 nm, drying the applied dispersion at a temperature of 100°C to 300°C thereby forming said coating, vapor depositing parallel gold metal strips each having a length of 20 mm and a width of 3 mm and being separated by 1.0 mm onto said coating by means of a mask, the resistivity being determined from resistance measured between said parallel gold metal strips, said resistance being measured in a vacuum and by means of a four pole method.~~

Claim 2. (Cancelled)

Claim 3. (Cancelled)

Claim 4. (Previously Presented) The dispersion according to Claim 1, wherein the 3,4-polyalkylenedioxythiophenes are represented by formula (I),



wherein,

n is an integer from 3 to 100, and

X is $-(CH_2)_x-CR^1R^2-(CH_2)_y-$, wherein

R^1 and R^2 , independently of one another, are selected from the group consisting of H, an optionally substituted alkyl radical having from 1 to 20 carbon atoms, an aryl radical having from 6 to 14 carbon atoms, and $-CH_2-OR^3$,

wherein R^3 is selected from the group consisting of H, alkyl and $-CH_2-CH_2-CH_2-SO_3H$,

and

x and y are each, independently of one another, an integer from 0 to 9.

Claim 5. (Original) The dispersion according to Claim 1, wherein the dispersion is a 3,4-polyethylenedioxythiophene / polystyrene sulfonate dispersion.

Claims 6-8. (Cancelled)

Claim 9. (Previously Presented) The dispersion according to Claim 4, wherein n is an integer from 4 to 15.